NOTICE

All drawings located at the end of the document.

Draft Buffer Zone Sampling and Analysis Plan Addendum #BZ-04-02 IHSS Group 900-12, East Trenches Trenches T-6, T-8, T-9a, and T-9b IHSSs 111.3, 111.5, 111.6a, and 111.6b

October 2003

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Approval received from the Colorado Department of Public Health and Environment ().

Approval letter is contained in the Administrative Record.

October 2003

TABLE OF CONTENTS

1.0 Introduction 2.0 Existing IHSS Information 3.0 Sampling	1
LIST OF FIGURES	
Figure 1 IHSS Group 900-12 Location Map	
Figure 2 Trenches T-6, T-8, T-9a and T-9b, Existing Data Above Backs	
Plus Two Standard Deviations, or Reporting Limits	5, 8, 9a, and 9b)5
LIST OF TABLES	
Table 1 BZSAP Addendum #BZ-04-02 IHSS Group	1
Table 2 Potential Contaminants of Concern.	4
Table 3 Sampling Summary	
Table 4 Sampling Specifications for IHSS Group 900-12	<i>I</i>

ACRONYMS

BZ Buffer Zone

BZSAP Buffer Zone Sampling and Analysis Plan

DOE U.S. Department of Energy

FY Fiscal Year

HPGe high-purity germanium HRR Historical Release Report

IHSS Individual Hazardous Substance Site

ug/kg micrograms per kilogram
mg/kg milligrams per kilogram
NFAA No Further Accelerated Action

N/A not applicable

PCB polychlorinated biphenyl pCi/g picocuries per gram

PCOC potential contaminant of concern

RL reporting limit

SAP Sampling and Analysis Plan SVOC semi-volatile organic compound VOC volatile organic compound WRW wildlife refuge worker

1.0 INTRODUCTION

This Buffer Zone (BZ) Sampling and Analysis Plan (SAP) (BZSAP) Addendum #BZ-04-02 includes Individual Hazardous Substance Site (IHSS) Group-specific information, sampling locations, and potential contaminants of concern (PCOCs) for IHSSs proposed for characterization during Fiscal Year (FY) 04. This BZSAP Addendum is a supplement to the BZSAP (DOE 2002a) and includes data and proposed sampling locations for portions of IHSS Group 900-12. The associated IHSSs are listed in Table 1. The location of the IHSS Group is shown on Figure 1.

Table 1
BZSAP Addendum #BZ-04-02 IHSS Group

	bzsar Addendum #bz-04-02 11155 Group
IHSS Group	IHSSs
900-12	NE-111.3, Trench T-6
	NE-111.5, Trench T-8
	NE-111.6a, Trench T-9a
	NE-111.6b, Trench T-9b

IHSS Group 900-12 contains other IHSSs/trenches that are recommended or approved for No Further Accelerated Action (NFAA), including IHSS NE-110/Trench T-3 (approved February 14, 2002 [DOE 2002b]); IHSS-111.1/Trench T-4 and IHSS 111.4/Trench T-7 (approved June 12, 2003 [DOE 2003]); and IHSS 111.2/Trench T-5, IHSS 111.7/Trench T-10, and IHSS 111.8/Trench T-11 (final document not published for approval). These sites do not require any further characterization.

2.0 EXISTING IHSS INFORMATION

Existing information and data for the IHSSs are available in Appendix C of the BZSAP (DOE 2002a), the Draft BZ Data Summary Report (DOE 2001), the Historical Release Report for the Rocky Flats Plant (DOE 1992), and the Draft Trenches and Mound Site Characterization Report (DOE 1996). Existing concentrations greater than background means plus two standard deviations, or reporting limits (RLs), are presented on Figure 2. Table 2 presents PCOCs by IHSS Site.

3.0 SAMPLING

Biased sampling will be conducted to augment the existing data presented on Figure 2. The proposed biased sampling locations (seven) are shown on Figure 3. The proposed sampling and analysis specifications for each IHSS Site are summarized in Table 3 and listed, by sampling location, in Table 4. After characterization starts, the number and type of samples may change based on field conditions and/or sampling results. Changes to sampling specifications will be considered in consultation with the regulatory agencies.

Draft BZSAP Addendum #BZ-04-02 IHSS Group 900-12

Table 2
Potential Contaminants of Concern

		-	Potential Containmants of Concern	CELII	
SSHI	Site	PCOCs	Media	Sources	Sampling Type
Group					
900-12	NF-111 3 Trench T-6	Radionuclides	Surface and Subsurface Soil	HRR (DOE 1992)	Brased locations
1		Metals		Process knowledge (Draft BZ Data Summary	
		PCBs		[DOE 2001] and BZSAP [DOE 2002a])	
		SVOCs		Draft Trenches and Mound Site	-
		VOCs		Characterization Report (DOE 1996)	
	NE-111 5 Trench T-8	Radionuclides	Surface and Subsurface Soil	HRR (DOE 1992)	Biased locations
	ME-111.3, 110000 1 0	Metals		Process knowledge (Draft BZ Data Summary	
		PCBs		[DOE 2001] and BZSAP [DOE 2002a])	
		SVOCs		Draft Trenches and Mound Site	
		VOCs		Characterization Report (DOE 1996)	
	NE 111 6 Tranch T-03	Radionuclides	Surface and Subsurface Soil	HRR (DOE 1992)	Biased locations
	NE-111.0a, 110000 1-7a	Metals		Process knowledge (Draft BZ Data Summary	
		PCBs		[DOE 2001] and BZSAP [DOE 2002a])	
		SVOCs		Draft Trenches and Mound Site	
		NOCs		Characterization Report (DOE 1996)	
	NE 111 6h Tranch T-0h	Radionuclides	Surface and Subsurface Soil	HRR (DOE 1992)	Biased locations
	ME-111:00, 11cmcn 1 70	Metals		Process knowledge (Draft BZ Data Summary	
		PCBs		[DOE 2001] and BZSAP [DOE 2002a])	
		SVOCs		Draft Trenches and Mound Site	
		VOCs		Characterization Report (DOE 1996)	

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Table 3
Sampling Summary

Category	Total
Number of Sampling Locations	7
Number of Samples Collected	42
Number of Radionuclide Analyses	42
Number of Metal Analyses	42
Number of VOC Analyses	42
Number of SVOC Analyses	42
Number of PCB Analyses	42

4.0 REFERENCES

DOE, 1992, Historical Release Report for the Rocky Flats Plant, Golden, Colorado, June.

DOE, 1996, Draft Trenches and Mound Site Characterization Report, Rocky Flats Environmental Technology Site, Golden, Colorado, September.

DOE, 2001, Rocky Flats Environmental Technology Site Buffer Zone Data Summary Report, Golden, Colorado, July.

DOE, 2002a, Buffer Zone Sampling and Analysis Plan, Rocky Flats Environmental Technology Site, Golden, Colorado, June.

DOE, 2002b, Annual Update for the Historical Release Report, Rocky Flats Environmental Technology Site, Golden, Colorado, September.

DOE, 2003, Annual Update for the Historical Release Report, Rocky Flats Environmental Technology Site, Golden, Colorado, September.

Draft BZSAP Addendum #BZ-04-02 IHSS Group 900-12

Table 4
Sampling Specifications for IHSS Group 900-12

			Sampling Spec	HICATIONS TO	Sampling Specifications for Ities of our 200-12		The state of the s	3:5	Off Cita
2211	Tranch	Location	Easting	Northing	Media	Deptu	Analyte		
CCUI				21.01 27.1 27.1 27.1 28.1 28.1 27.1 27.1 27.1 27.1 27.1 27.1 27.1 27		Interval		Laboratory	Laboratory
Group								Method	Method
	E	0241 000	2087861 492	749637 905	Surface Soil	0-0.5	Radionuclides	HPGe	Alpha Spec
900-12	Trench 1-0	000-147	771.1001007		Surface Soil	0-0.5	Metals	6200	6010
					Surface Soil	0-0.5	PCBs	N/A	8082
					Surface Soil	0-0.5	SVOCs	N/A	8270
					Subsurface Soil	0.5 - 2.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	0.5 - 2.5'	Metals	6200	6010
					Subsurface Soil	0.5 - 2.5'	PCBs	N/A	8082
					Subsurface Soil	0.5 - 2.5'	SVOCs	N/A	8270
					Subsurface Soil	0.5 - 2.5'	VOCs	8260	8260
					Subsurface Soil	2.5 - 4.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	2.5 - 4.5'	Metals	6200	6010
		_			Subsurface Soil	2.5 - 4.5'	PCBs	N/A	8082
					Subsurface Soil	2.5 - 4.5'	SVOCs	N/A	8270
					Subsurface Soil	2.5 - 4.5'	VOCs	8260	8260
					Subsurface Soil	4.5 - 6.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	4.5 - 6.5'	Metals	6200	6010
					Subsurface Soil	4.5 - 6.5'	PCBs	N/A	8082
					Subsurface Soil	4.5 - 6.5'	SVOCs	N/A	8270
					Subsurface Soil	4.5 - 6.5'	VOCs	8260	8260
					Subsurface Soil	6.5 - 8.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	6.5 - 8.5'	Metals	6200	6010
**************************************					Subsurface Soil	6.5 - 8.5'	PCBs	N/A	8082
					Subsurface Soil	6.5 - 8.5'	SVOCs	N/A	8270
					Subsurface Soil	6.5 - 8.5'	VOCs	8260	8260
					Subsurface Soil	8.5 - 10.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	8.5 - 10.5	Metals	6200	6010
					Subsurface Soil	8.5 - 10.5'	PCBs	N/A	8082
					Subsurface Soil	8.5 - 10.5'	SVOCs	N/A	8270
					Subsurface Soil	8.5 - 10.5'	VOCs	8260	8260
		DA41-000	2087966.960	749641.812	Surface Soil	0 - 0.5	Radionuclides	HPGe	Alpha Spec
_			_	_					

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Off-Site	Laboratory	6010	8082	8270	Alpha Spec	6010	8082	8270	8260	Alpha Spec	6010	8082	8270	8260	Alpha Spec	6010	8082	8270	8260	Alpha Spec	6010	8082	8270	8260	Alpha Spec	6010	8082	8270	8260	Alpha Spec	6010	8082	
On-Site	Laboratory Method	0000	N/A	N/A	HPGe	6200	N/A	N/A	8260	HPGe	6200	N/A	N/A	8260	HPGe	6200	N/A	N/A	8260	HPGe	6200	N/A	N/A	8260	HPGe	6200	N/A	N/A	8260	HPGe	6200	N/A	
Analyte	100 mm	Motolo	PCRe	SVOCs	Radionuclides	Metals	PCBs	SVOCs	VOCs	Radionuclides	Metals	PCBs	SVOCs	VOCs	Radionuclides	Metals	PCBs	SVOCs	VOCs	Radionuclides	Metals	PCBs	SVOCs	VOCs	Radionuclides	Metals	PCBs	SVOCs	VOCs	Radionuclides	Metals	PCBs	
Depth	Interval	300	0-0.5	0-0.5	0.5 - 2.5'	0.5 - 2.5'	0.5 - 2.5'	0.5 - 2.5'	0.5 - 2.5'	2.5 - 4.5'	2.5 - 4.5'	2.5 - 4.5'	2.5 - 4.5'	2.5 - 4.5'	4.5 - 6.5'	4.5 - 6.5'	4.5 - 6.5'	4.5 - 6.5'	4.5 - 6.5'	6.5 - 8.5	6.5 - 8.5	6.5 - 8.5	6.5 - 8.5	6.5 - 8.5'	8.5 - 10.5'	8.5 - 10.5	8.5 - 10.5'	8.5 - 10.5'	8.5 - 10.5'	0-0.5	0 - 0.5'	0-0.5	
Media			Surface Soil	Surface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	- Contract																								
Northing		Section of the sectio									•																			749520.718			_
Fermo		THE THE PERSON NAMED IN COLUMN TO SERVICE AND SERVICE																												2087930,502			_
Location																														C740-001			_
1	THE THE TABLE																													Tranch T.8	11011011 1-0		
00444	Group																						10										

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33111	Trench		Location	Easting	Northing	Media	Depth	Analyte	On-Site	Off-Site
Group		. 13 . 13					Interval		Laboratory	Laboratory
					New Comment of the Comment	Cubeurface Soil	05-25	Metals	6200	6010
						Subsurface Soil	0.5 - 2.5'	PCBs	N/A	8082
						Subsurface Soil	0.5 - 2.5'	SVOCs	N/A	8270
						Subsurface Soil	0.5 - 2.5'	VOCs	8260	8260
						Subsurface Soil	2.5 - 4.5'	Radionuclides	HPGe	Alpha Spec
						Subsurface Soil	2.5 - 4.5'	Metals	6200	6010
						Subsurface Soil	2.5 - 4.5'	PCBs	N/A	8082
						Subsurface Soil	2.5 - 4.5'	SVOCs	N/A	8270
						Subsurface Soil	2.5 - 4.5'	VOCs	8260	8260
						Subsurface Soil	4.5 - 6.5'	Radionuclides	HPGe	Alpha Spec
						Subsurface Soil	4.5 - 6.5'	Metals	6200	6010
						Subsurface Soil	4.5 - 6.5'	PCBs	N/A	8082
						Subsurface Soil	4.5 - 6.5'	SVOCs	N/A	8270
						Subsurface Soil	4.5 - 6.5'	VOCs	8260	8260
						Subsurface Soil	6.5 - 8.5'	Radionuclides	HPGe	Alpha Spec
						Subsurface Soil	6.5 - 8.5'	Metals	6200	6010
						Subsurface Soil	6.5 - 8.5	PCBs	N/A	8082
						Subsurface Soil	6.5 - 8.5	SVOCs	N/A	8270
						Subsurface Soil	6.5 - 8.5	VOCs	8260	8260
						Subsurface Soil	8.5 - 10.5'	Radionuclides	HPGe	Alpha Spec
						Subsurface Soil	8.5 - 10.5'	Metals	6200	6010
						Subsurface Soil	8.5 - 10.5'	PCBs	N/A	8082
						Subsurface Soil	8.5 - 10.5'		N/A	8270
						Subsurface Soil	8.5 - 10.5'	VOCs	8260	8260
			COV 002	2087864 096	749510.301	Surface Soil	0 - 0.5'	Radionuclides	HPGe	Alpha Spec
····-			700-0470	2000		Surface Soil	0-0.5	Metals	6200	6010
						Surface Soil	0-0.5	PCBs	N/A	8082
						Surface Soil	0 - 0.5'	SVOCs	N/A	8270
						Subsurface Soil	0.5 - 2.5'	Radionuclides	HPGe	Alpha Spec
						Subsurface Soil	0.5 - 2.5'	Metals	6200	6010
						Subsurface Soil	0.5 - 2.5'	PCBs	N/A	8082
						Subsurface Soil	-	SVOCs	N/A	8270
						Subsurface Soil	0.5 - 2.5'	VOCs	8260	8260

Preliminary Review Draft for Interagency Discussion Not Issued for Public Comment 9

Subsurface Soil 2.5.4.5 Radiomuclides HPCe Alpha Spantace Soil 2.5.4.5 Nordens 6.200 1.5.4.5 Nordens 6.200 1	IHSS Trench Group	nch	Location	Easting	Northing	Media	Depth Interval	Analyte	On-Site Laboratory Method	CIT-Site Laboratory Method
Subsurface Soil 2.5.4.5 PCBs N/A Subsurface Soil 2.5.4.5 PCBs N/A Subsurface Soil 2.5.4.5 ROCs 8260 Subsurface Soil 2.5.4.5 Rediomuclides HPCe A Subsurface Soil 4.5.6.5 Rediomuclides N/A Subsurface Soil 4.5.6.5 Rediomuclides HPCe A Subsurface Soil 4.5.6.5 Rediomuclides HPCe A Subsurface Soil 6.5.8.5 RoCs N/A Subsurface Soil 6.5.8.5 RoCs N/A Subsurface Soil 6.5.8.5 PCBs N/A Subsurface Soil 6.5.8.5 PCBs N/A Subsurface Soil 6.5.8.5 PCBs N/A Subsurface Soil 8.5.10.5 Rediomuclides HPCe Subsurface Soil 8.5.10.5 Rediomuclides HPCe Subsurface Soil 0.0.5 SVOCs N/A Subsurface Soil 0.5.2.5 ROCs N/A <t< td=""><td></td><td></td><td>The state of the s</td><td>S. T. S. S.</td><td>10.000 miles 10.000 miles 10.000</td><td>Subsurface Soil</td><td>2.5 - 4.5'</td><td>Radionuclides</td><td>HPGe</td><td>Alpha Spec</td></t<>			The state of the s	S. T. S.	10.000 miles 10.000	Subsurface Soil	2.5 - 4.5'	Radionuclides	HPGe	Alpha Spec
Subsurface Soil 2.5 - 4.5 PCBS N/A Subsurface Soil 2.5 - 4.5 VOCS R200 Subsurface Soil 2.5 - 4.5 VOCS R200 Subsurface Soil 4.5 - 6.5 Radionuclides HPCe A Subsurface Soil 4.5 - 6.5 PCBS N/A Subsurface Soil 4.5 - 6.5 SVOCS R200 Subsurface Soil 4.5 - 6.5 VOCS R260 Subsurface Soil 6.5 - 8.5 Mctals R200 Subsurface Soil 6.5 - 8.5 Mctals R200 Subsurface Soil 6.5 - 8.5 VOCS R200 Subsurface Soil 6.5 - 8.5 VOCS R200 Subsurface Soil 8.5 - 10.5 Radionuclides HPGe Subsurface Soil 8.5 - 10.5 Radionuclides HPGe Subsurface Soil 8.5 - 10.5 Radionuclides HPGe Subsurface Soil 0.0.5 RACCS N/A Subsurface Soil 0.0.5 RACCS N/A Su						Subsurface Soil	2.5 - 4.5'	Metals	6200	6010
Subsurface Soil 2.5.4.5 SVOCS N/A Subsurface Soil 2.5.4.5 ROCS 8260 Subsurface Soil 4.5.6.5 Radiomuclides HPCB Subsurface Soil 4.5.6.5 Readiomuclides HPCB Subsurface Soil 4.5.6.5 PCBS N/A Subsurface Soil 6.5.8.5 VOCS 8260 Subsurface Soil 6.5.8.5 Radiomuclides HPCe Subsurface Soil 6.5.8.5 NOCS 8260 Subsurface Soil 6.5.8.5 SVOCS N/A Subsurface Soil 6.5.8.5 SVOCS N/A Subsurface Soil 6.5.8.5 SVOCS RAGO Subsurface Soil 8.5.10.5 PCBs N/A Subsurface Soil 8.5.10.5 Radiomuclides HPGe Subsurface Soil 0.0.5 PCBs N/A Subsurface Soil 0.0.5 PCBs N/A Subsurface Soil 0.0.5 PCBs N/A Subsurface Soil 0.5.2.5						Subsurface Soil	2.5 - 4.5'	PCBs	N/A	8082
Subsurface Soil 2.5.4.5' Radionuclides RPGe ABCO Subsurface Soil 4.5.6.5' Radionuclides HPGe ABCO Subsurface Soil 4.5.6.5' PCBs N/A Subsurface Soil 4.5.6.5' SVOCs N/A Subsurface Soil 4.5.6.5' RAdionuclides HPGe Subsurface Soil 6.5.8.5' RAdionuclides HPGe Subsurface Soil 6.5.8.5' RAdionuclides HPGe Subsurface Soil 6.5.8.5' RAdionuclides N/A Subsurface Soil 6.5.8.5' VOCs 8260 Subsurface Soil 8.5.10.5' RAdionuclides HPGe Subsurface Soil 0.0.5' RAdionuclides HPGe Subsurface Soil 0.0.5' RADIONOS RADIO Subsurface Soil 0.0.5'	27 47 41					Subsurface Soil	2.5 - 4.5'	SVOCs	N/A	8270
Subsurface Soil 4.5 - 6.5' Radionuclides HPGe A Subsurface Soil 4.5 - 6.5' Metals 6200 Subsurface Soil 4.5 - 6.5' PCBs N/A Subsurface Soil 4.5 - 6.5' SVOCs R260 Subsurface Soil 6.5 - 8.5' Redionuclides HPGe A Subsurface Soil 8.5 - 10.5' Metals 6.200 Subsurface Soil 8.5 - 10.5' Redionuclides HPGe Subsurface Soil 8.5 - 10.5' Redionuclides HPGe Subsurface Soil 8.5 - 10.5' Redionuclides HPGe Subsurface Soil 0 - 0.5' Redionuclides HPGe Surface Soil 0 - 0.5' Redionuclides HPGe Subsurface Soil 0 - 0.5' Redionuclides HPGe						Subsurface Soil	2.5 - 4.5'	VOCs	8260	8260
Subsurface Soil 4.5 - 6.5' Metals 6200 Subsurface Soil 4.5 - 6.5' PCBs N/A Subsurface Soil 4.5 - 6.5' VOCs 8260 Subsurface Soil 6.5 - 8.5' VOCs 8260 Subsurface Soil 6.5 - 8.5' PCBs N/A Subsurface Soil 6.5 - 8.5' PCBs N/A Subsurface Soil 6.5 - 8.5' PCBs N/A Subsurface Soil 6.5 - 8.5' VOCs 8260 Subsurface Soil 6.5 - 8.5' VOCs 8260 Subsurface Soil 8.5 - 10.5' Redionuclides HPGe Subsurface Soil 8.5 - 10.5' Redionuclides HPGe Subsurface Soil 8.5 - 10.5' RoCs N/A Subsurface Soil 0 - 0.5' Redionuclides HPGe Surface Soil 0 - 0.5' Redionuclides N/A Subsurface Soil 0 - 0.5' Redionuclides N/A Subsurface Soil 0 - 0.5' Redionuclides HPGe <t< td=""><td></td><td></td><td></td><td></td><td></td><td>Subsurface Soil</td><td>4.5 - 6.5'</td><td>Radionuclides</td><td>HPGe</td><td>Alpha Spec</td></t<>						Subsurface Soil	4.5 - 6.5'	Radionuclides	HPGe	Alpha Spec
Subsurface Soil 4.5 - 6.5' PCBs N/A Subsurface Soil 4.5 - 6.5' SVOCs N/A Subsurface Soil 4.5 - 6.5' Radiomuclides HPGe A Subsurface Soil 6.5 - 8.5' Rediomuclides HPGe A Subsurface Soil 6.5 - 8.5' PCBs N/A Subsurface Soil 6.5 - 8.5' SVOCs N/A Subsurface Soil 6.5 - 8.5' SVOCs N/A Subsurface Soil 8.5 - 10.5' Rediomuclides HPGe Subsurface Soil 8.5 - 10.5' Rediomuclides HPGe Subsurface Soil 8.5 - 10.5' N/A SVOCs N/A Subsurface Soil 8.5 - 10.5' Rediomuclides HPGe A Surface Soil 0 - 0.5' Rediomuclides HPGe A Surface Soil 0 - 0.5' Rediomuclides HPGe Subsurface Soil 0.5 - 2.5' ROCs N/A Subsurface Soil 0.5 - 2.5' Rediomuclides HPGe Sub						Subsurface Soil	4.5 - 6.5'	Metals	6200	6010
Subsurface Soil 4.5 - 6.5' SVOCs N/A Subsurface Soil 6.5 - 8.5' Reg0 17.6 Subsurface Soil 6.5 - 8.5' Reals 17.6 Subsurface Soil 6.5 - 8.5' Reals 17.0 Subsurface Soil 6.5 - 8.5' PCBs N/A Subsurface Soil 6.5 - 8.5' SVOCs N/A Subsurface Soil 6.5 - 8.5' VOCs 8.260 Subsurface Soil 8.5 - 10.5' Redais Redo Subsurface Soil 8.5 - 10.5' Redainuclides HPGe Subsurface Soil 8.5 - 10.5' Redainuclides HPGe Subsurface Soil 0 - 0.5' Retals Redo Surface Soil 0 - 0.5' Retals Redo Surface Soil 0 - 0.5' Retals Redo Subsurface Soil 0 - 0.5' Retals Redo Subsurface Soil 0 - 0.5' Retals Redo Subsurface Soil 0 - 5.2' Redo Redo Subsurface Soil						Subsurface Soil	4.5 - 6.5'	PCBs	N/A	8082
CY40-001 2087619.304 4.5-6.5' VOCs 8260 Subsurface Soil 6.5-8.5' Metals 6200 Subsurface Soil 6.5-8.5' Metals 6200 Subsurface Soil 6.5-8.5' SVOCs N/A Subsurface Soil 6.5-8.5' VOCs 8260 Subsurface Soil 8.5-10.5' Radionuclides HPGe Subsurface Soil 8.5-10.5' Redionuclides HPGe Subsurface Soil 8.5-10.5' RoCos 8260 Subsurface Soil 8.5-10.5' PCBs N/A Subsurface Soil 8.5-10.5' Radionuclides HPGe Surface Soil 0-0.5' Radionuclides HPGe Surface Soil 0-0.5' Redionuclides HPGe Subsurface Soil 0.5-2.5' Readionuclides HPGe Subsurface Soil 0.5-2.5' Readionuclides HPGe Subsurface Soil 0.5-2.5' Readionuclides N/A Subsurface Soil 0.5-2.5' Readionuclides Readion						Subsurface Soil	4.5 - 6.5'	SVOCs	N/A	8270
Subsurface Soil 6.5 - 8.5' Radionuclides HPGe A. B.						Subsurface Soil	4.5 - 6.5'	VOCs	8260	8260
CY40-001 2087619.304 6.5 - 8.5' Metals 6200 Subsurface Soil 6.5 - 8.5' PCBs N/A Subsurface Soil 6.5 - 8.5' SVOCs N/A Subsurface Soil 8.5 - 10.5' Radionuclides HPGe Subsurface Soil 8.5 - 10.5' PCBs N/A Subsurface Soil 0 - 0.5' PCBs N/A Surface Soil 0 - 0.5' PCBs N/A Subsurface Soil 0.5 - 2.5' VOCs 8260 Subsurface Soil 0.5 - 2.5' VOCs 8260 Subsurface Soil 0.5 - 2.5' VOCs 8260 Subsurface Soil <td></td> <td></td> <td></td> <td></td> <td></td> <td>Subsurface Soil</td> <td>6.5 - 8.5'</td> <td>Radionuclides</td> <td>HPGe</td> <td>Alpha Spec</td>						Subsurface Soil	6.5 - 8.5'	Radionuclides	HPGe	Alpha Spec
CY40-001 2087619.304 6.5 - 8.5' PCBs N/A Subsurface Soil 6.5 - 8.5' SVOCs N/A Subsurface Soil 6.5 - 8.5' VOCs 8260 Subsurface Soil 8.5 - 10.5' Metals 6200 Subsurface Soil 8.5 - 10.5' N/A N/A Subsurface Soil 8.5 - 10.5' VOCs 8260 Subsurface Soil 8.5 - 10.5' VOCs 8260 Subsurface Soil 0 - 0.5' Radionuclides HPGe Surface Soil 0 - 0.5' Radionuclides HPGe Surface Soil 0 - 0.5' Radionuclides HPGe Surface Soil 0.5 - 2.5' Radionuclides HPGe Subsurface Soil 0.5 - 2.5' NOCs 8260 Subsurface Soil 0.5 - 2.5' VOCs 8260						Subsurface Soil	6.5 - 8.5'	Metals	6200	6010
Subsurface Soil 6.5 - 8.5° SVOCs N/A Subsurface Soil 6.5 - 8.5° VOCs 8260 Subsurface Soil 8.5 - 10.5° Radionuclides HPGe 1 Subsurface Soil 8.5 - 10.5° Metals 6200 Subsurface Soil 8.5 - 10.5° PCBs N/A Subsurface Soil 8.5 - 10.5° VOCs 8260 Subsurface Soil 0 - 0.5° Radionuclides HPGe Surface Soil 0 - 0.5° Radionuclides HPGe Surface Soil 0 - 0.5° Radionuclides HPGe Surface Soil 0 - 0.5° Redionuclides HPGe Subsurface Soil 0.5 - 2.5° SVOCs N/A Subsurface Soil 0.5 - 2.5° Redionuclides HPGe Subsurface Soil 0.5 - 2.5° ROCs N/A <td></td> <td></td> <td></td> <td></td> <td></td> <td>Subsurface Soil</td> <td>6.5 - 8.5</td> <td>PCBs</td> <td>N/A</td> <td>8082</td>						Subsurface Soil	6.5 - 8.5	PCBs	N/A	8082
CY40-001 2087619.304 749559.780 Subsurface Soil 6.5 - 8.5' VOCs 8260 CY40-001 2087619.304 749559.780 Surface Soil 8.5 - 10.5' Radionuclides HPGe 1.0 CY40-001 2087619.304 749559.780 Surface Soil 8.5 - 10.5' Radionuclides HPGe 1.0 CY40-001 2087619.304 749559.780 Surface Soil 0 - 0.5' Radionuclides HPGe 1.0 Surface Soil 0 - 0.5' Radionuclides HPGe 1.0 <						Subsurface Soil	6.5 - 8.5'	SVOCs	N/A	8270
Subsurface Soil 8.5 - 10.5' Radionuclides HPGe A. A						Subsurface Soil	6.5 - 8.5	VOCs	8260	8260
CY40-001 2087619.304 749559.780 Subsurface Soil 8.5 - 10.5' Metals 6200 CY40-001 2087619.304 749559.780 Surface Soil 8.5 - 10.5' Radionuclides HPGe Subsurface Soil 0 - 0.5' Radionuclides HPGe 200 Surface Soil 0 - 0.5' Redionuclides HPGe Subsurface Soil 0.5 - 2.5' Redionuclides HPGe Subsurface Soil 0.5 - 2.5' PCBs N/A Subsurface Soil 0.5 - 2.5' SVOCs N/A Subsurface Soil 0.5 - 2.5' SVOCs N/A Subsurface Soil 0.5 - 2.5' Redionuclides HPGe Subsurface Soil 0.5 - 2.5' Redionuclides HPGe Subsurface Soil 2.5 - 4.5' Redionuclides HPGe Subsurface Soil <td< td=""><td></td><td></td><td></td><td></td><td>,</td><td>Subsurface Soil</td><td>8.5 - 10.5</td><td>Radionuclides</td><td>HPGe</td><td>Alpha Spec</td></td<>					,	Subsurface Soil	8.5 - 10.5	Radionuclides	HPGe	Alpha Spec
CY40-001 2087619.304 749559.780 Subsurface Soil 8.5 - 10.5' SVOCs N/A CY40-001 2087619.304 749559.780 Surface Soil 0 - 0.5' Radiomuclides HPGe Surface Soil 0 - 0.5' Radiomuclides HPGe 200 Surface Soil 0 - 0.5' Radiomuclides N/A Surface Soil 0 - 0.5' Radiomuclides N/A Surface Soil 0 - 0.5' Radiomuclides N/A Subsurface Soil 0.5 - 2.5' Radiomuclides N/A Subsurface Soil 0.5 - 2.5' Retals 6200 Subsurface Soil 0.5 - 2.5' N/A Subsurface Soil 0.5 - 2.5' Radiomuclides HPGe Subsurface Soil 0.5 - 2.5' Radiomuclides HPGe Subsurface Soil 0.5 - 2.5' Radiomuclides HPGe Subsurface Soil 2.5 - 4.5' Radiomuclides HPGe Subsurface Soil 2.5 - 4.5' Rediomuclides HPGe Subsurface Soil 2.5 - 4.5' Rediomuclides N/A						Subsurface Soil	8.5 - 10.5'	Metals	6200	6010
CY40-001 2087619.304 749559.780 Surface Soil 8.5 - 10.5' VOCs 8260 CY40-001 2087619.304 749559.780 Surface Soil 0 - 0.5' Radionuclides HPGe A Surface Soil 0 - 0.5' Metals 6200 Surface Soil 0 - 0.5' PCBs N/A Surface Soil 0 - 0.5' SVOCs N/A Subsurface Soil 0.5 - 2.5' Radionuclides HPGe Subsurface Soil 0.5 - 2.5' Readionuclides N/A Subsurface Soil 0.5 - 2.5' PCBs N/A Subsurface Soil 0.5 - 2.5' Radionuclides HPGe Subsurface Soil 0.5 - 2.5' Radionuclides HPGe Subsurface Soil 2.5 - 4.5' Radionuclides HPGe Subsurface Soil 2.5 - 4.5' Radionuclides HPGe Subsurface Soil 2.5 - 4.5' Redionuclides N/A Subsurface Soil 2.5 - 4.5' PCBs N/A Subsurface Soil 2.5 - 4.5'						Subsurface Soil	8.5 - 10.5'	PCBs	N/A	8082
CY40-001 2087619.304 749559.780 Surface Soil 0 - 0.5' Radionuclides HPGe A HPGe Surface Soil 0 - 0.5' Metals 6200 Surface Soil 0 - 0.5' PCBs N/A Surface Soil 0 - 0.5' PCBs N/A Surface Soil 0 - 0.5' SVOCs N/A Subsurface Soil 0.5 - 2.5' Metals 6200 Subsurface Soil 0.5 - 2.5' Metals 6200 Subsurface Soil 0.5 - 2.5' PCBs N/A Subsurface Soil 0.5 - 2.5' PCBs N/A Subsurface Soil 0.5 - 2.5' Radionuclides HPGe Subsurface Soil 0.5 - 2.5' Radionuclides HPGe Subsurface Soil 2.5 - 4.5' Radionuclides HPGe Subsurface Soil 2.5 - 4.5' Radionuclides HPGe Subsurface Soil 2.5 - 4.5' Redionuclides N/A Subsurface Soil 2.5 - 4.5' PCBs N/A Subsurface Soil						Subsurface Soil	8.5 - 10.5'	SVOCs	N/A	8270
CY40-001 2087619.304 749559.780 Surface Soil 0 - 0.5' Radionuclides HPGe Surface Soil 0 - 0.5' Metals 6200 Surface Soil 0 - 0.5' PCBs N/A Subsurface Soil 0.5 - 2.5' Radionuclides HPGe Subsurface Soil 0.5 - 2.5' Radionuclides N/A Subsurface Soil 0.5 - 2.5' SVOCs N/A Subsurface Soil 0.5 - 2.5' SVOCs N/A Subsurface Soil 0.5 - 2.5' Radionuclides HPGe Subsurface Soil 2.5 - 4.5' Radionuclides HPGe Subsurface Soil 2.5 - 4.5' Redionuclides HPGe Subsurface Soil 2.5 - 4.5' Redionuclides HPGe Subsurface Soil 2.5 - 4.5' Redionuclides N/A Subsurface Soil 2.5 - 4.5' PCBs N/A Subsurface Soil 2.5 - 4.5' PCBs N/A Subsurface Soil 2.5 - 4.5' PCBs N/A						Subsurface Soil	8.5 - 10.5'	VOCs	8260	8260
Surface Soil 0 - 0.5' Metals 6200 Surface Soil 0 - 0.5' PCBs N/A Subsurface Soil 0.5 - 2.5' Radionuclides HPGe Subsurface Soil 0.5 - 2.5' Metals 6200 Subsurface Soil 0.5 - 2.5' PCBs N/A Subsurface Soil 0.5 - 2.5' VOCs 8260 Subsurface Soil 0.5 - 2.5' VOCs 8260 Subsurface Soil 0.5 - 2.5' VOCs 8260 Subsurface Soil 2.5 - 4.5' Radionuclides HPGe Subsurface Soil 2.5 - 4.5' Redionuclides HPGe Subsurface Soil 2.5 - 4.5' PCBs N/A Subsurface Soil 2.5 - 4.5' PCBs N/A	E	E	CV40 001	2087610 304	749559 780	Surface Soil	0-0.5	Radionuclides	HPGe	Alpha Spec
0 - 0.5' PCBs N/A 0 - 0.5' SVOCs N/A 0.5 - 2.5' Radionuclides HPGe 0.5 - 2.5' Metals 6200 0.5 - 2.5' PCBs N/A 0.5 - 2.5' SVOCs N/A 0.5 - 2.5' VOCs 8260 0.5 - 2.5' Radionuclides HPGe 1.5 - 4.5' Metals 6200 1 2.5 - 4.5' PCBs 1 2.5 - 4.5' N/A	I renc	n 1-9a	C140-001	100:0101007		Surface Soil	0-0.5	Metals	6200	6010
0 - 0.5' SVOCs N/A 0.5 - 2.5' Radionuclides HPGe 0.5 - 2.5' Metals 6200 0.5 - 2.5' PCBs N/A 0.5 - 2.5' SVOCs 8260 0.5 - 2.5' VOCs 8260 2.5 - 4.5' Radionuclides HPGe 2.5 - 4.5' Metals 6200 1 2.5 - 4.5' PCBs N/A 1 2.5 - 4.5' SVOCs N/A						Surface Soil	0-0.5	PCBs	N/A	8082
0.5 - 2.5' Radionuclides HPGe 0.5 - 2.5' Metals 6200 0.5 - 2.5' PCBs N/A 0.5 - 2.5' SVOCs N/A 0.5 - 2.5' VOCs 8260 2.5 - 4.5' Radionuclides HPGe 1 2.5 - 4.5' Metals 6200 1 2.5 - 4.5' PCBs N/A 1 2.5 - 4.5' SVOCs N/A						Surface Soil	0-0.5	SAOCs	N/A	8270
0.5 - 2.5' Metals 6200 0.5 - 2.5' PCBs N/A 0.5 - 2.5' SVOCs N/A 0.5 - 2.5' VOCs 8260 2.5 - 4.5' Radionuclides HPGe 2.5 - 4.5' Metals 6200 1 2.5 - 4.5' PCBs N/A 1 2.5 - 4.5' SVOCs N/A						Subsurface Soil	0.5 - 2.5	Radionuclides	HPGe	Alpha Spec
0.5 - 2.5' PCBs N/A 0.5 - 2.5' SVOCs N/A 0.5 - 2.5' VOCs 8260 2.5 - 4.5' Radionuclides HPGe 2.5 - 4.5' Metals 6200 1 2.5 - 4.5' PCBs 1 2.5 - 4.5' SVOCs			-			Subsurface Soil	0.5 - 2.5'	Metals	6200	6010
0.5 - 2.5' SVOCs N/A 0.5 - 2.5' VOCs 8260 2.5 - 4.5' Radionuclides HPGe 2.5 - 4.5' Metals 6200 1 2.5 - 4.5' PCBs N/A 1 2.5 - 4.5' SVOCs N/A						Subsurface Soil	0.5 - 2.5'	PCBs	N/A	8082
0.5 - 2.5' VOCs 8260 2.5 - 4.5' Radionuclides HPGe 1 2.5 - 4.5' Metals 6200 1 2.5 - 4.5' PCBs N/A 1 2.5 - 4.5' SVOCs N/A						Subsurface Soil	0.5 - 2.5'	SVOCs	N/A	8270
2.5 - 4.5' Radionuclides HPGe 2.5 - 4.5' Metals 6200 2.5 - 4.5' PCBs N/A 2.5 - 4.5' SVOCs N/A						Subsurface Soil	0.5 - 2.5'	VOCs	8260	8260
2.5 - 4.5' Metals 6200 2.5 - 4.5' PCBs N/A 2.5 - 4.5' SVOCs N/A						Subsurface Soil	2.5 - 4.5'	Radionuclides	HPGe	Alpha Spec
2.5 - 4.5' PCBs N/A 2.5 - 4.5' SVOCs N/A						Subsurface Soil	2.5 - 4.5'	Metals	6200	6010
2.5 - 4.5' SVOCs N/A						Subsurface Soil	2.5 - 4.5'	PCBs	N/A	8082
						Subsurface Soil	2.5 - 4.5'	SVOCs	N/A	8270

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Site	atory 1od	20	Spec	2	32	70	30	Spec	01	32	20	20	Spec	10	82	70	20	Spec	10	82	70	Spec	10	82	70	09	Spec	10	82	8270	09	Alpha Spec	6010	8082
Off-Site	Laboratory Method	8260	Alpha Spec	6010	8082	8270	8260	Alpha Spec	6010	8082	8270	8260	Alpha Spec	6010	8082	8270	8260	Alpha Spec	6010	8082	8270	Alpha Spec	6010	8082	8270	8260	Alpha Spec	6010	8082	82	8260	Alpha	9	80
On-Site	Laboratory Method	8260	HPGe	6200	N/A	N/A	8260	HPGe	6200	N/A	N/A	8260	HPGe	6200	N/A	N/A	8260	HPGe	6200	N/A	N/A	HPGe	6200	N/A	N/A	8260	HPGe	6200	N/A	N/A	8260	HPGe	6200	N/A
Analyte		VOCs	Radionuclides	Metals	PCBs	SVOCs	VOCs	Radionuclides	Metals	PCBs	SVOCs	VOCs	Radionuclides	Metals	PCBs	SVOCs	NOCs	Radionuclides	Metals	PCBs	SVOCs	Radionuclides	Metals	PCBs	SVOCs	VOCs	Radionuclides	Metals	PCBs	SVOCs	VOCs	Radionuclides	Metals	PCBs
Depth	Interval	2.5 - 4.5'	4.5 - 6.5'	4.5 - 6.5'	4.5 - 6.5'	4.5 - 6.5'	4.5 - 6.5'	6.5 - 8.5	6.5 - 8.5'	6.5 - 8.5'	6.5 - 8.5	6.5 - 8.5	8.5 - 10.5'	8.5 - 10.5'	8.5 - 10.5'	8.5 - 10.5'	8.5 - 10.5	0 - 0.5'	0 - 0.5	0 - 0.5'	0-0.5	0.5 - 2.5'	0.5 - 2.5'	0.5 - 2.5	0.5 - 2.5'	0.5 - 2.5'	2.5 - 4.5	2.5 - 4.5'	2.5 - 4.5'	2.5 - 4.5'	2.5 - 4.5'	4.5 - 6.5'	4.5 - 6.5'	4.5 - 6.5'
Media	on the second se	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil																											
Northing		XX															-	749532.437																
Easting					.,													2087466.960													,			
Location				11 to		-												CX40-001	1									•						
Trench																		Trench T-9h										~						
SSHI	Group																					AUP.												

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IHSS Trench Group		Location	Easting	Northing	Media	Depth	Analyte	On-Site Laboratory Method	Laboratory Method
					Subsurface Soil	4.5 - 6.5'	SVOCs	N/A	8270
					Subsurface Soil	4.5 - 6.5'	VOCs	8260	8260
					Subsurface Soil	6.5 - 8.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	6.5 - 8.5'	Metals	6200	6010
					Subsurface Soil	6.5 - 8.5'	PCBs	N/A	8082
	-				Subsurface Soil	6.5 - 8.5'	SVOCs	N/A	8270
					Subsurface Soil	6.5 - 8.5'	VOCs	8260	8260
					Subsurface Soil	8.5 - 10.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	8.5 - 10.5'	Metals	6200	6010
					Subsurface Soil	8.5 - 10.5'	PCBs	N/A	8082
					Subsurface Soil	8.5 - 10.5'	SVOCs	N/A	8270
					Subsurface Soil	8.5 - 10.5	VOCs	8260	8260
		000 047	2007206 221	740518 114	Surface Soil	0-0.5	Radionuclides	HPGe	Alpha Spec
	<u>-</u>	CX40-002		+11.01041	Surface Soil	0-0.5	Metals	6200	6010
					Surface Soil	0-0.5	PCBs	N/A	8082
					Surface Soil	0-0.5	SVOCs	N/A	8270
	•••				Subsurface Soil	0.5 - 2.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	0.5 - 2.5'	Metals	6200	6010
					Subsurface Soil	0.5 - 2.5'	PCBs	N/A	8082
**					Subsurface Soil	0.5 - 2.5'	SVOCs	N/A	8270
					Subsurface Soil	0.5 - 2.5'	VOCs	8260	8260
					Subsurface Soil	2.5 - 4.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	2.5 - 4.5'	Metals	6200	6010
					Subsurface Soil	2.5 - 4.5'	PCBs	N/A	8082
					Subsurface Soil	2.5 - 4.5'	SAOCs	N/A	8270
					Subsurface Soil	2.5 - 4.5'	VOCs	8260	8260
					Subsurface Soil	4.5 - 6.5'	Radionuclides	HPGe	Alpha Spec
					Subsurface Soil	4.5 - 6.5'	Metals	6200	6010
					Subsurface Soil	4.5 - 6.5'	PCBs	N/A	8082
					Subsurface Soil	4.5 - 6.5'	SVOCs	N/A	8270
					Subsurface Soil	4.5 - 6.5'	VOCs	8260	8260
					Subsurface Soil	6.5 - 8.5	Radionuclides	HPGe	Alpha Spec
					C. L. Co.	65 25	Metals	6200	6010

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Draft BZSAP Addendum #BZ-04-02 IHSS Group 900-12

IHSS Trench Group	Location	Easting	Northing	Media	Depth Interval	Analyte	On-Site Laboratory Method	Off-Site Laboratory Method
-				Subsurface Soil	6.5 - 8.5	PCBs	N/A	8082
				Subsurface Soil	6.5 - 8.5'	SVOCs	N/A	8270
				Subsurface Soil	65-85	VOCs	8260	8260
				Subsurface Soil	85-10.5	Radionuclides	HPGe	Alpha Spec
				Subsurface Soil	85-10.5	Metals	6200	6010
				Subsurface Soil	85-10.5		N/A	8082
				Subsurface Soil	8.5 - 10.5'	SVOCs	N/A	8270
				Subsurface Soil	+-		8260	8260

Preliminary Review Draft for Interagency Discussion/Not Issued for Public Comment 13



